

# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

Montana State Office

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In Reply To:

6840/1610(923)P

July 18, 2005

EMAIL TRANSMISSION – 07/18/05

Instruction Memorandum No. MT-2005-055

Expires: 9/30/06

To: Field Managers

From: State Director

Subject: 2005 Montana/Dakotas Special Status Plant Species Policy

**Purpose:** The Special Status Species Policy 6840 gives the State Director the responsibility of designating Bureau of Land Management (BLM) sensitive species, and periodically reviewing/updating the list in cooperation with states and Natural Heritage Programs (NHPs). The sensitive species designation is used to provide conservation actions for species to preclude the need for listing and to improve the status of species to the point where special status recognition is no longer warranted. Sensitive species are afforded the same protection as that provided for federal candidate species.

This Instruction Memorandum (IM) transmits a procedure for establishing BLM sensitive plant species in Montana, North Dakota, and South Dakota and a list of BLM sensitive plants as developed by this procedure (Attachment 1).

**Policy:** The Montana/Dakota BLM sensitive plant list will be developed from species tracked by the NHPs in Montana, North Dakota, and South Dakota and from internal and external nominations. This approach is similar to the process used by the BLM in most states and the United States Forest Service Region 1. Coordination with the State Heritage Programs is directed in the 6840 Manual for management of special status species.

Species will be recommended to the State Director for designation as sensitive that are:

- Known to occur on BLM-administered land for which the BLM has the capability to significantly affect the conservation status of the species through management, or known to occur on lands affected by BLM-authorized actions;

And are either,

- Tracked by one of the NHPs with a state rank of S1-S2 or a global rank of G1-G3 (see definitions of ranks in Attachment 2),

Or

- The species is at risk due to one of the following seven criteria (from the 6840 Manual):
  1. Could become endangered in or extirpated from the state, or within a significant portion of its distribution in the foreseeable future;

2. Are under status review by the United States Fish and Wildlife Service (USFWS) and/or the National Oceanic and Atmospheric Administration, Fisheries (NOAA, Fish);
3. Are undergoing significant current or predicted downward trends in habitat capability that would reduce a species' existing distribution;
4. Are undergoing significant current or predicted downward trends in population or density such that federally-listed, proposed candidate, or state-listed status may become necessary;
5. Have typically small and widely dispersed populations;
6. Are inhabiting ecological refugia, specialized or unique habitats; or
7. Are state-listed but which may be better conserved through application of BLM sensitive species status. Such species should be managed to the level of protection required by state laws or under the BLM policy for candidate species, whichever would provide better opportunity for its conservation. (This only applies to South Dakota because Montana and North Dakota do not maintain lists of threatened or endangered plants.)

Collectively, the term "special status species" includes: species proposed for federal listing as threatened or endangered; species listed as threatened or endangered; species designated as candidates for listing; state-listed species; and BLM-sensitive species.

**Action:** The needs of sensitive plant species should be incorporated during budget planning, project planning, NEPA analysis, and land use planning. Field offices are responsible for special status species which are known or become known to occur in that field office.

1. Budget planning: Develop projects to gather new baseline information, improve or restore habitat, or monitor the condition of habitat and populations after treatments. Incorporate baseline information, habitat restoration, or sensitive plant monitoring into projects proposed for other resources. (Example, habitat improvement for sensitive plants from fuels treatment projects.) Linking project feasibility and benefits to sensitive species can improve the chance for funding.

2. NEPA analysis and compliance: When a project is proposed, the interdisciplinary team should look at the sensitive species list, Natural Heritage Database information, or other information as appropriate to see if sites or habitat of sensitive species are known to occur in the field office. If a proposed alternative or project has the potential to positively or negatively affect a sensitive species, the impacts should be described and addressed in the NEPA analysis. Mitigation measures should be developed to prevent excessive loss of known sites. If sites or habitat may be present, a field inventory should be conducted prior to project implementation at the optimum time of year to determine presence or absence of sensitive species.

3. Land Use Planning: During plan revision, the sensitive species list and the USFWS list should be used to define the decisions listed in Appendix C of the Land Use Planning Handbook (H-1601-1), primarily priority species and habitats and desired future conditions for populations and habitats.

Offices are encouraged to maintain a field office level watch list of rare plant species suspected to occur, either because the species occurs on adjoining land or likely habitat occurs in the field office. Watch species may also include state rank S3 species or global rank G4 where additional information may clarify conservation status of the species.

The Montana State Office (MSO) Botanist is available to assist the FOs with budget planning, NEPA, and land-use planning.

The sensitive species list will be updated periodically to reflect increased knowledge of known sites on BLM-administered land and changes in status at the NHPs. Species which are upgraded to S2 or above or G3 or above may be added to the sensitive list at that time. Species will be dropped from the state sensitive list when they no longer meet one of the seven criteria or which fall to state rank S3 or below or global rank G4 or below. Field offices may elect to continue to maintain the species on the field office watch list. Federally de-listed species will be designated as Bureau sensitive for 5 years for post-listing monitoring.

Taxonomic changes and species codes will follow the nomenclature in the USDA Plants Database, <http://www.plants.usda.gov/>.

**Background:** The sensitive plant species list has not been reviewed since it was completed in 1996 and the rationale for including various species has not been consistently documented. The previous Montana/Dakotas procedure to establish the sensitive plant species list is not consistent with the procedures in neighboring BLM states and FS regions. In order to have coordinated management of rare plants across jurisdictional boundaries, the policy for the BLM in Montana and the Dakotas needs to be updated. This will also clarify, for the public as well as BLM personnel, how and why species are on the sensitive plant list.

**Contact:** Please contact Nora Taylor (406) 896-5032 at the MSO with any questions or comments.

Signed by: Arthur J. Meredith, Acting

Authenticated by: Merry Prestridge (MT923)

## 2 Attachments

- 1-Montana/Dakotas BLM Sensitive Plant Species List (9 pages)
- 2-Definitions of Heritage ranks (1 page)

## Distribution

SOMT - 1

Asst. FM Havre - 1

Asst. FM Glasgow - 1

| Scientific Name                                 | Species Code | Common Name         | Global Rank | State Rank 2003 MNHP | State Rank 2002 SDNHP | State Rank 2004 NDNHP | 010 - Billings | 020 - Miles City | 030 - N Dakota | 040 - S Dakota | 050 - Dillon | 060 - Lewistown | 070 - Butte | 090 - Malta | 092 - Glasgow | 093 - Havre | 100 - Missoula |
|---|--------------|---------------------|-------------|----------------------|-----------------------|-----------------------|----------------|------------------|----------------|----------------|--------------|-----------------|-------------|-------------|---------------|-------------|----------------|
| Adoxa moschatellina                             | ADMO         | musk-root           | G5          | S2                   | S3                    |                       |                |                  |                |                |              |                 | K           |             |               |             |                |
| Agastache cusickii                              | AGCU         | Cusick's horse-mint | G3G4        | S1                   |                       |                       |                |                  |                |                | K            |                 |             |             |               |             |                |
| Ageratina occidentalis = Eupatorium occidentale | AGOC2        | Western boneset     | G4          | S2                   |                       |                       |                |                  |                |                | K            |                 |             |             |               |             |                |
| Amaranthus californicus                         | AMCA         | California amaranth | G4          | S2                   |                       |                       |                |                  |                |                | K            |                 |             |             |               |             |                |
| Amerorchis rotundifolia = Orchis rotundifolia   | AMRO         | round-leaved orchis | G5          | S2S3                 |                       |                       |                |                  |                |                |              | K               |             |             |               |             |                |
| Amorpha canescens                               | AMCA6        | leadplant           | G5          | SH                   |                       |                       |                | K                |                |                |              |                 |             |             |               |             |                |
| Anagallis minima = Centunculus minimus          | ANMI4        | chaffweed           | G5          | S2                   |                       |                       |                |                  |                |                |              |                 |             | K           |               |             |                |
| Aquilegia formosa                               | AQFO         | Sitka columbine     | G5T4        | S1                   |                       |                       |                |                  |                |                | K            |                 | S           |             |               |             |                |
| Arabis demissa var. languida                    | ARDEL        | Daggett rock cress  | G5          | S1                   |                       |                       | K              |                  |                |                |              |                 |             |             |               |             |                |
| Arabis fecunda                                  | ARFE6        | sapphire rockcress  | G2          | S2                   |                       |                       |                |                  |                |                | K            |                 | K           |             |               |             |                |
| Asclepias stenophylla                           | ASST         | narrowleaf milkweed | G4G5        | S1                   |                       |                       |                | K                |                |                |              |                 |             |             |               |             |                |

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|--|--------------|--------------------------|-------------|----------------------|-----------------------|-----------------------|----------------|------------------|----------------|----------------|--------------|-----------------|-------------|-------------|---------------|-------------|----------------|
| Astragalus aretioides = Orophaca aretioides                | ASAR3        | Sweetwater milkvetch     | G4          | S2                   |                       |                       | K              |                  |                |                |              |                 |             |             |               |             |                |
| Astragalus barrii  | ASBA         | Barr's milkvetch         | G3          | S2S3                 | S3                    |                       |                | K                |                |                |              |                 |             |             |               |             |                |
| Astragalus ceramicus var. apus                             | ASCEA        | painted milkvetch        | G4T3        | S1                   |                       |                       |                | S                |                |                | K            |                 |             |             |               |             |                |
| Astragalus convallarius var. convallarius = A. junciformis | ASCOC9       | lesser rushy milkvetch   | G5T5        | S2                   |                       |                       |                |                  |                |                | K            |                 | K           |             |               |             |                |
| Astragalus geyeri  | ASGEG        | Geyer's milkvetch        | G4          | S2                   |                       |                       | K              |                  |                |                |              | S               |             |             |               |             |                |
| Astragalus grayi   | ASGR4        | Gray's milkvetch         | G4?         | S2                   |                       |                       | K              |                  |                |                |              |                 |             |             |               |             |                |
| Astragalus oreganus  | ASOR2        | Wind River milkvetch     | G4?         | S1                   |                       |                       | K              |                  |                |                |              |                 |             |             |               |             |                |
| Astragalus scaphoides                                      | ASSC4        | Bitterroot milkvetch     | G3          | S2                   |                       |                       |                |                  |                |                | K            |                 |             |             |               |             |                |
| Astragalus terminalis                                      | ASTE9        | railhead milkvetch       | G3          | S2                   |                       |                       |                |                  |                |                | K            |                 |             |             |               |             |                |
| Balsamorhiza macrophylla                                   | BAMA4        | large-leafed balsamroot  | G3G5        | S1                   |                       |                       |                |                  |                |                | K            |                 |             |             |               |             |                |
| Braya humilis  | BRHU         | low northern - rockcress | G5          | S1                   |                       |                       |                |                  |                |                | K            |                 |             |             |               |             |                |
| C. idahoa = C. parryana ssp. idahoa                        | CAID         | Idaho sedge              | G2          | S2                   |                       |                       |                |                  |                |                | K            |                 | K           |             |               |             |                |

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|---|--------------|-----------------------------|-------------|----------------------|-----------------------|-----------------------|----------------|------------------|----------------|----------------|--------------|-----------------|-------------|-------------|---------------|-------------|----------------|
| Camissonia andina = Oenothera andina          | CAAN14       | obscure evening-primrose    | G4          | S2                   |                       |                       | K              |                  |                |                |              |                 |             |             |               |             |                |
| Camissonia parvula = Oenothera parvula        | CAPA39       | small camissonia            | G5          | S1                   |                       |                       | K              |                  |                |                |              |                 |             |             |               |             |                |
| Carex crawei                                  | CACR3        | Crawe's sedge               | G5          | S2                   |                       |                       |                | K                |                |                |              | S               |             |             |               |             |                |
| Cirsium longistylum                           | CILO2        | long-styled thistle         | G2          | S2                   |                       |                       | K              |                  |                |                |              | K               |             |             |               |             |                |
| Cleome lutea                                  | CLLU2        | yellow bee plant            | G5          | S1                   |                       |                       | K              |                  |                |                |              |                 |             |             |               |             |                |
| Cryptantha fendleri                           | CRFE3        | Fendler cat's-eye           | G4          | S2                   |                       |                       |                |                  |                |                | K            |                 |             |             |               |             |                |
| Cryptantha scoparia                           | CRSC2        | miner's candle              | G4?         | S1                   |                       |                       | K              |                  |                |                |              |                 |             |             |               |             |                |
| Cyperus schweinitzii                          | CYSC3        | Schweinitz' flatsedge       | G5          | S2                   |                       |                       |                | K                |                |                |              |                 |             |             |               |             |                |
| Cypripedium parviflorum                       | CYPA19       | small yellow lady's-slipper | G5          | S2S3                 |                       | S2S3                  | K              |                  |                |                |              | S               | K           |             |               |             | K              |
| Dichanthelium oligosanthes var. scribnerianum | DIOLS        | Scribner's panic grass      | G5T5        | S1                   |                       |                       |                | K                |                |                |              |                 |             |             |               |             |                |
| Draba globosa = D. apiculata                  | DRGL6        | beavertip draba             | G3          | S1                   |                       |                       |                |                  |                |                | K            |                 |             |             |               |             |                |
| Draba ventosa                                 | DRVE         | Wind River draba            | G3          | S1                   |                       |                       |                |                  |                |                | K            |                 |             |             |               |             |                |
| Elodea bifoliata = E. longivaginata           | ELBI2        | long sheath waterweed       | G4G5        | S2                   |                       |                       | S              |                  |                |                | S            |                 |             | K           |               |             |                |

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|---|--------------|--------------------------------|-------------|----------------------|-----------------------|-----------------------|----------------|------------------|----------------|----------------|--------------|-----------------|-------------|-------------|---------------|-------------|----------------|
| Erigeron asperugineus                                       | ERAS         | Idaho fleabane                 | G4          | S1                   |                       |                       |                |                  |                |                | K            |                 |             |             |               |             |                |
| Erigeron linearis   | ERLI         | linearleaf fleabane            | G5          | S1                   |                       |                       |                |                  |                |                | K            |                 | K           |             |               |             |                |
| Erigeron ochroleucus var. ochroleucus = E. parryi           | EROCO        | buff fleabane                  | G5T5        | S2                   |                       |                       |                |                  |                |                | K            |                 |             |             |               |             |                |
| Eriogonum caespitosum                                       | ERCA8        | matted buckwheat               | G5          | S1                   |                       |                       |                |                  |                |                | K            |                 |             |             |               |             |                |
| Eriogonum soliceps  |              | Railroad Canyon wild buckwheat | G2          | S2                   |                       |                       |                |                  |                |                | K            |                 |             |             |               |             |                |
| Eriogonum visherii  | ERVII4       | Visher's buckwheat             | G3          | S1                   | S3                    | S2S3                  |                | K                |                |                |              |                 |             |             |               |             |                |
| Grayia spinosa  | GRSP         | spiny hopsage                  | G5          | S2                   |                       |                       | K              |                  |                |                |              |                 |             |             |               |             |                |
| Grindelia howellii  | GRHO         | Howell's gumweed               | G3          | S2S3                 |                       |                       |                |                  |                |                |              |                 |             |             |               |             | K              |
| Heliomeris multiflora var. multiflora = Viguiera multiflora | HEMUM        | showy golden eye               | G4G5        | S1                   |                       |                       |                |                  |                |                | K            |                 |             |             |               |             |                |
| Hutchinsia procumbens                                       | HUPR         | prostrate hutchensia           | G5          | S1                   |                       |                       |                |                  |                |                | K            |                 | K           |             |               |             |                |
| Ipomopsis congesta ssp. crebrifolia                         | IPCOC        | ballhead ipomopsis             | G5T3T4      | S2                   |                       |                       |                |                  |                |                | K            |                 |             |             |               |             |                |
| Kobresia simpliciuscula                                     | KOSI2        | simple bog sedge               | G5          | S2                   |                       |                       |                |                  |                |                | K            |                 |             |             |               |             |                |

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|--|--------------|---------------------------|-------------|----------------------|-----------------------|-----------------------|----------------|------------------|----------------|----------------|--------------|-----------------|-------------|-------------|---------------|-------------|----------------|
| Kochia americana                               | KOAM         | green molly               | G5          | S1                   |                       |                       |                |                  |                |                | K            |                 |             |             |               |             |                |
| Leptodactylon caespitosum                      | LECA         | mat prickly phlox         | G4          | S2                   |                       |                       | K              |                  |                |                |              |                 |             |             |               |             |                |
| Lesquerella carinata var. languida             | LECAL3       | Idaho bladderpod          | G3G4T1      | S1                   |                       |                       |                |                  |                |                |              |                 |             |             |               |             | K              |
| Lesquerella lesicii                            | LELE26       | Pryor Mountain bladderpod | G1          | S1                   |                       |                       | K              |                  |                |                |              |                 |             |             |               |             |                |
| Lesquerella pulchella                          | LEPU15       | beautiful bladderpod      | G2          | S2                   |                       |                       |                |                  |                |                | K            |                 |             |             |               |             |                |
| Leymus flavescens = Elymus flavescens          | LEFL4        | sand wildrye              | G4          | S1                   |                       |                       |                |                  |                |                | K            |                 |             |             |               |             |                |
| Lomatium attenuatum                            | LOAT         | taper-tip desert-parsley  | G3          | S2                   |                       |                       |                |                  |                |                | K            |                 |             |             |               |             |                |
| Lomatium nuttallii                             | LONU3        | Nuttall desert-parsley    | G3          | S1                   | SH                    |                       |                | K                |                |                |              |                 |             |             |               |             |                |
| Lomatogonium rotatum                           | LORO         | marsh felwort             | G5          | S1                   |                       |                       |                |                  |                |                | K            |                 |             |             |               |             |                |
| Malacothrix torreyi = M. sonchoides v. torreyi | MATO2        | Torrey's desert dandelion | G4          | S1                   |                       |                       | K              |                  |                |                |              |                 |             |             |               |             |                |
| Megalodonta beckii var. beckii = Bidens beckii | MEBEB        | Beck's water marigold     | G4G5T4      | S2                   |                       |                       |                |                  |                |                |              |                 |             |             |               |             | K              |
| Mentzelia montana                              | MEMO4        | soft blazingstar          | G4          | SH                   |                       |                       |                |                  |                |                | K            |                 |             |             |               |             |                |



| <b>Scientific Name</b>         | <b>Species Code</b> | <b>Common Name</b>              | <b>Global Rank</b> | <b>State Rank 2003 MNHP</b> | <b>State Rank 2002 SDNHP</b> | <b>State Rank 2004 NDNHP</b> | <b>010 - Billings</b> | <b>020 - Miles City</b> | <b>030 - N Dakota</b> | <b>040 - S Dakota</b> | <b>050 - Dillon</b> | <b>060 - Lewistown</b> | <b>070 - Butte</b> | <b>090 - Malta</b> | <b>092 - Glasgow</b> | <b>093 - Havre</b> | <b>100 - Missoula</b> |
|--------------------------------|---------------------|---------------------------------|--------------------|-----------------------------|------------------------------|------------------------------|-----------------------|-------------------------|-----------------------|-----------------------|---------------------|------------------------|--------------------|--------------------|----------------------|--------------------|-----------------------|
| Mentzelia nuda                 | MENU                | bractless mentzelia             | G5                 | S1                          |                              |                              |                       | K                       |                       |                       |                     |                        |                    |                    |                      |                    |                       |
| Mentzelia pumila               | MEPU3               | dwarf mentzelia                 | G4                 | S2                          |                              | S1                           | K                     |                         |                       |                       |                     |                        |                    |                    |                      |                    |                       |
| Mimulus nanus                  | MINA                | dwarf purple monkeyflower       | G4                 | S1                          |                              |                              |                       |                         |                       |                       |                     |                        | K                  |                    |                      |                    |                       |
| Mimulus ringens                | MIRI                | square-stem monkeyflower        | G5                 | S1                          |                              |                              |                       |                         |                       |                       |                     | K                      |                    |                    |                      |                    |                       |
| Nama densum                    | NADE2               | leafy nama                      | G5                 | S1                          |                              |                              | K                     |                         |                       |                       |                     |                        |                    |                    |                      |                    |                       |
| Orogenia fusiformis            | AMRO                | tapered-root Indian potato      | G5                 | S2                          |                              |                              |                       |                         |                       |                       | K                   |                        |                    |                    |                      |                    |                       |
| Pedicularis crenulata          | PECR                | meadow lousewort                | G4                 | S1                          |                              |                              |                       |                         |                       |                       | K                   |                        |                    |                    |                      |                    |                       |
| Penstemon angustifolius        | PEAN4               | narrowleaf penstemon            | G5                 | S2                          |                              |                              |                       | K                       |                       |                       |                     |                        |                    |                    |                      |                    |                       |
| Penstemon lemhiensis           | PELE8               | Lemhi beardtongue               | G3                 | S2                          |                              |                              |                       |                         |                       |                       | K                   |                        | K                  |                    |                      |                    |                       |
| Penstemon whippleanus          | PEWH                | Whipple's beardtongue           | G5                 | S1                          |                              |                              |                       |                         |                       |                       | K                   |                        |                    |                    |                      |                    |                       |
| Phacelia incana                | PHIN9               | hoary phacelia                  | G3G4               | S2                          |                              |                              |                       |                         |                       |                       | K                   |                        |                    |                    |                      |                    |                       |
| Phlox andicola                 | PHAN4               | plains phlox                    | G4                 | S2                          |                              |                              |                       | K                       |                       |                       |                     |                        |                    |                    |                      |                    |                       |
| Physaria brassicoides          | PHBR5               | double bladderpod               | G5                 | S2                          |                              |                              |                       | K                       |                       |                       |                     |                        |                    |                    |                      |                    |                       |
| Physaria didymocarpa v. lanata | PHDIL               | common twinpod                  | G5T2               | S1                          |                              |                              |                       | K                       |                       |                       |                     |                        |                    |                    |                      |                    |                       |
| Plagiobothrys leptocladus      | PLLE                | slender-branched popcorn flower | G4                 | S1                          |                              |                              |                       | S                       |                       |                       | K                   | S                      |                    |                    |                      |                    |                       |

| <b>Scientific Name</b>   | <b>Species Code</b> | <b>Common Name</b>                  | <b>Global Rank</b> | <b>State Rank 2003 MNHP</b> | <b>State Rank 2002 SDNHP</b> | <b>State Rank 2004 NDNHP</b> | <b>010 - Billings</b> | <b>020 - Miles City</b> | <b>030 - N Dakota</b> | <b>040 - S Dakota</b> | <b>050 - Dillon</b> | <b>060 - Lewistown</b> | <b>070 - Butte</b> | <b>090 - Malta</b> | <b>092 - Glasgow</b> | <b>093 - Havre</b> | <b>100 - Missoula</b> |
|--|---------------------|-------------------------------------|--------------------|-----------------------------|------------------------------|------------------------------|-----------------------|-------------------------|-----------------------|-----------------------|---------------------|------------------------|--------------------|--------------------|----------------------|--------------------|-----------------------|
| Poa arnowiae = P. curta  | POAR21              | short-leaved bluegrass              | G4                 | S1                          |                              |                              | K                     |                         |                       |                       |                     |                        |                    |                    |                      |                    |                       |
| Potentilla plattensis  | POPL                | Platte cinquefoil                   | G4                 | S1                          |                              |                              | K                     |                         |                       |                       |                     |                        |                    |                    |                      |                    |                       |
| Primula alcalina   | PRAL6               | alkali primrose                     | G2                 | S1                          |                              |                              |                       |                         |                       |                       | K                   |                        |                    |                    |                      |                    |                       |
| Primula incana   | PRIN                | mealy primrose                      | G4G5               | S2                          |                              | S1S2                         |                       |                         |                       |                       | K                   |                        |                    |                    |                      |                    |                       |
| Pseudostellaria jamesiana = Stellaria jamesiana                                      | PSJA2               | James stitchwort                    | G5                 | S1                          |                              |                              |                       |                         |                       |                       | K                   |                        |                    |                    |                      |                    |                       |
| Psilocarphus brevissimus   | PSBR                | dwarf wooly-heads                   | G4                 | S2                          |                              |                              |                       | K                       |                       |                       |                     |                        |                    |                    |                      |                    |                       |
| Puccinellia lemmonii   | PULE                | Lemmon's alkaligrass                | G4                 | S1                          |                              |                              |                       |                         |                       |                       | K                   |                        |                    |                    |                      |                    |                       |
| Pyrola picta   | PYP12               | white-veined wintergreen            | G4G5               |                             | S2                           |                              |                       |                         |                       | K                     |                     |                        |                    |                    |                      |                    |                       |
| Pyrrocoma carthamoides var. subsquarrosa = Haplopappus carthamoides v. subsquarrosus | PYCAS2              | Beartooth large-flowered goldenweed | G4G5T2T3           | S2                          |                              |                              | K                     |                         |                       |                       |                     |                        |                    |                    |                      |                    |                       |
| Quercus macrocarpa   | QUMA                | bur oak                             | G5                 | S1                          |                              |                              |                       | K                       |                       |                       |                     |                        |                    |                    |                      |                    |                       |
| Rorippa calycina   | ROCA                | persistent-sepal yellow-cress       | G3                 | S1                          |                              |                              | K                     | K                       |                       |                       |                     |                        |                    |                    |                      |                    |                       |

| Scientific Name                                      | Species Code | Common Name                | Global Rank | State Rank 2003 MNHP | State Rank 2002 SDNHP | State Rank 2004 NDNHP | 010 - Billings | 020 - Miles City | 030 - N Dakota | 040 - S Dakota | 050 - Dillon | 060 - Lewistown | 070 - Butte | 090 - Malta | 092 - Glasgow | 093 - Havre | 100 - Missoula |
|--|--------------|----------------------------|-------------|----------------------|-----------------------|-----------------------|----------------|------------------|----------------|----------------|--------------|-----------------|-------------|-------------|---------------|-------------|----------------|
| Schoenoplectus heterochaetus = Scirpus heterochaetus | SCHE5        | slender bulrush            | G5          | S1                   |                       |                       |                |                  |                |                |              |                 |             | K           |               |             |                |
| Scorpidium scorpioides                               | SCSC70       | worm moss                  | G4G5        | S2                   |                       |                       |                |                  |                |                |              | NP              |             |             |               |             |                |
| Shoshonea pulvinata                                  | SHPU         | shoshonea                  | G2G3        | S1                   |                       |                       | K              |                  |                |                |              |                 |             |             |               |             |                |
| Solidago velutina = S. sparsifolia                   | SOVE6        | few-flowered goldenrod     | G5?         | S1                   | SU                    |                       |                | K                |                |                |              |                 |             |             |               |             |                |
| Sphaeralcea munroana                                 | SPMU         | white-stemmed globe-mallow | G4          | S1                   |                       |                       |                |                  |                |                | K            |                 |             |             |               |             |                |
| Sphaeromeria argentea                                | SPAR2        | silver chicken sage        | G3G4        | S2                   |                       |                       |                |                  |                |                | K            |                 |             |             |               |             |                |
| Stenogonum salsuginosum = Eriogonum salsuginosum     | STSA3        | smooth buckwheat           | G4?         | S1                   |                       |                       | K              |                  |                |                |              |                 |             |             |               |             |                |
| Stephanomeria spinosa = Lygodesmia spinosa           | STSP6        | thorn skeletonweed         | G4          | S1                   |                       |                       |                |                  |                |                | K            |                 |             |             |               |             |                |
| Sullivantia hapemanii var. hapemanii                 | SUHAH        | Wyoming sullivantia        | G3T3        | S2                   |                       |                       | K              |                  |                |                |              |                 |             |             |               |             |                |
| Taraxacum eriophorum                                 | TAER2        | Rocky Mountain dandelion   | G4          | S2                   |                       |                       |                |                  |                |                | K            |                 |             |             |               |             | S              |

| <b>Scientific Name</b>                               | <b>Species Code</b> | <b>Common Name</b>     | <b>Global Rank</b> | <b>State Rank 2003 MNHP</b> | <b>State Rank 2002 SDNHP</b> | <b>State Rank 2004 NDNHP</b> | <b>010 - Billings</b> | <b>020 - Miles City</b> | <b>030 - N Dakota</b> | <b>040 - S Dakota</b> | <b>050 - Dillon</b> | <b>060 - Lewistown</b> | <b>070 - Butte</b> | <b>090 - Malta</b> | <b>092 - Glasgow</b> | <b>093 - Havre</b> | <b>100 - Missoula</b> |
|--|---------------------|------------------------|--------------------|-----------------------------|------------------------------|------------------------------|-----------------------|-------------------------|-----------------------|-----------------------|---------------------|------------------------|--------------------|--------------------|----------------------|--------------------|-----------------------|
| Thalictrum alpinum                                   | THAL                | alpine meadowrue       | G5                 | S2                          |                              |                              |                       |                         |                       |                       | K                   |                        |                    |                    |                      |                    |                       |
| Thelypodium paniculatum                              | THPA6               | Northwestern thelypody | G2                 | SH                          |                              |                              |                       |                         |                       |                       | K                   |                        |                    |                    |                      |                    |                       |
| Thelypodium sagittatum ssp. sagittatum               | THSAS               | arrow thelypody        | G4T4               | S2                          |                              |                              |                       |                         |                       |                       | K                   |                        |                    |                    |                      |                    |                       |
| Thlaspi parviflorum                                  | THPA2               | meadow pennycress      | G3                 | S2                          |                              |                              |                       |                         |                       |                       | K                   |                        |                    |                    |                      |                    |                       |
| Townsendia condensata                                | TOCO2               | cushion townsendia     | G4                 | S1S2                        |                              |                              |                       |                         |                       |                       | K                   |                        |                    |                    |                      |                    |                       |
| Townsendia florifera                                 | TOFL2               | showy townsendia       | G5                 | S1                          |                              |                              |                       |                         |                       |                       | K                   |                        |                    |                    |                      |                    |                       |
| Trichophorum pumilum = Scirpus pumilis var. rolandii | TRPU18              | small clubrush         | G5                 | S1                          |                              |                              |                       |                         |                       |                       |                     | NP                     |                    |                    |                      |                    |                       |

| <b>Abbreviation</b> | <b>Definition</b>  |
|---------------------|--|
|                     | At high risk because of extremely limited and potentially declining population numbers and/or habitat, making it highly vulnerable to global extinction or extirpation in the state. |
| G1/S1               |  |
|                     | At risk because of very limited and potentially declining population numbers and/or habitat, making it vulnerable to global extinction or extirpation in the state.                  |
| G2/S2               |  |
|                     | Potentially at risk because of limited range, populations and/or habitat, even though it may be abundant in some areas.  |
| G3/S3               |  |
|                     | Apparently secure, though it may be quite rare in parts of its range, and/or suspected to be declining.  |
| G4/S4               |  |
| G5/S5               | Demonstrably secure, though it may be quite rare in parts of its range.  |
| GU/SU               | Possible at risk, but status is uncertain; more information is needed.   |
| GH/SH               | Historical, known only from records over 50 years ago; may be rediscovered.  |
| Combination ranks   | Indicates a range of uncertainty about the status of the species, e.g. G3G4.   |
| Sub-rank            | Rank of a subspecies or variety; appended to the global rank of the full species, e.g. G4T3.   |
|                     | Distinctiveness of the taxon is questionable; appended to the global rank, e.g. G3Q.   |
| Q                   |  |
| ?                   | Denotes uncertainty; inexactness.  |
| MNHP                | Montana Natural Heritage Program   |
| SDNHP               | South Dakota Natural Heritage Program  |
| NDNHP               | North Dakota Natural Heritage Program  |
| K                   | Known on public land, from MNHP records  |
| S                   | Suspected on public land   |
| NP                  | Known on non-public land   |